#### STATE OF MISSOURI

### **DEPARTMENT OF NATURAL RESOURCES**

#### MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

MO-0055981

Permit No.

Owner: Address:	City of Bunceton P.O. Box 146, Bunceton, MO 65237
Continuing Authority: Address:	Same as above Same as above
Facility Name: Facility Address:	Bunceton Wastewater Treatment Facility West College Street, Bunceton, MO 65237
Legal Description: UTM Coordinates:	SE <sup>1</sup> / <sub>4</sub> , SE <sup>1</sup> / <sub>4</sub> , Sec. 32, T47N, R17W, Cooper County X= 517119, Y= 4293436
Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	Tributary to Stephens Branch (U) Stephens Branch (C) (0787) (10300102-0402)
is authorized to discharge from the facility of as set forth herein:	described herein, in accordance with the effluent limitations and monitoring requirements
FACILITY DESCRIPTION Outfall #001 - POTW- SIC #4952 The use or operation of this facility shall be Three-cell lagoon / ultraviolet disinfection/ Design population equivalent is 500 Design flow is 48,500 gallons per day. Actual flow is 24,640 gallons per day. Design sludge production is 7.5 dry tons/ye	
Elimination System; it does not apply to oth	charges under the Missouri Clean Water Law and the National Pollutant Discharge ner regulated areas. This permit may be appealed in accordance with Section 644.051.6 or
June 1, 2013  Effective Date  August 14, 2013  Modification Date	Sara Parker Pauley, Director, Department of Natural Resources
June 30, 2015 Expiration Date	John Wadras, Director, Water Protection Program

OUTFALL #001

# TABLE A-1 INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 8

PERMIT NUMBER MO-0055981

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect through  $\underline{Mav\ 31,\ 2017}$ . Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	,	ERIM EFFLU LIMITATION		MONITORING REQUIREMENTS			
LITEOLIVI I AKAMLILIK(S)	ONTIS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE		
Flow	MGD	*		*	once/month	24 hr. estimate		
Biochemical Oxygen Demand <sub>5</sub>	mg/L		65	45	once/month	grab		
Total Suspended Solids	mg/L		110	70	once/month	grab		
E. coli (Note 1, Page 2)	#/100 ml		1030	206	once/month	grab		
pH – Units	SU	**		**	once/month	grab		
Ammonia as N	mg/L	*		*	once/month	grab		
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE JULY 28, 2013. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.								
Whole Effluent Toxicity (WET) test	% Survival	See Special Condition #20			once/permit cycle	grab		
MONITORING REPORTS SHALL BE SUBMI	MONITORING REPORTS SHALL BE SUBMITTED ONCE PER PERMIT CYCLE; THE FIRST REPORT IS DUE JULY 28, 2015.							

<sup>\*</sup> Monitoring requirement only.

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a 30-day geometric mean. The Weekly Average for *E. coli* will be expressed as a 7-day geometric mean if more than one (1) sample is collected during a calendar week (Sunday through Saturday).

<sup>\*\*</sup> pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.5 pH units.

OUTFALL #001

#### TABLE A-2 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 3 of 8

PERMIT NUMBER MO-0055981

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u>June 1, 2017</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	FINAL EF	FLUENT LIM	ITATIONS	MONITORING REQUIREMENTS			
EFFECENT FARAMETER(S)	ONTIS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE		
Flow	MGD	*		*	once/month	24 hr. estimate		
Biochemical Oxygen Demand <sub>5</sub>	mg/L		65	45	once/month	grab		
Total Suspended Solids	mg/L		110	70	once/month	grab		
E. coli (Note 1, Page 2)	#/100 ml		1030	206	once/month	grab		
pH – Units	SU	**		**	once/month	grab		
Ammonia as N	mg/L				once/month	grab		
(April 1 – Sept 30)		4.3		1.4				
(Oct 1 – March 31)		8.8		2.7				
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE JULY 28, 2017. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.								
Whole Effluent Toxicity (WET) test	% Survival	See Spec	cial Condition	n #20	once/permit cycle	grab		

<sup>\*</sup> Monitoring requirement only.

MONITORING REPORTS SHALL BE SUBMITTED ONCE PER PERMIT CYCLE; THE FIRST REPORT IS DUE JULY 28, 2015.

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a 30-day geometric mean. The Weekly Average for *E. coli* will be expressed as a 7-day geometric mean if more than one (1) sample is collected during a calendar week (Sunday through Saturday).

<sup>\*\*</sup> pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.5 pH units.

## TABLE B INFLUENT MONITORING REQUIREMENTS

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PERMIT NUMBER MO-0055981

The facility is required to meet a removal efficiency of 65% or more as a monthly average. The monitoring requirements shall become effective upon issuance and remain in effect until expiration of the permit. To determine removal efficiencies, the influent wastewater shall be monitored by the permittee as specified below:

SAMPLING LOCATION AND	UNITS	MONITORING REQUIREMENTS			
PARAMETER(S)	CIVIIS	MEASUREMENT FREQUENCY	SAMPLE TYPE		
Biochemical Oxygen Demand <sub>5</sub>	mg/L	once/quarter***	grab		
Total Suspended Solids	mg/L	once/quarter***	grab		

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JULY 28, 2013.

\*\*\* See table below for quarterly sampling.

Minimum Sampling Requirements						
Quarter         Months         Influent Parameters         Report is Due						
First	January, February, March	Sample at least once during any month of the quarter	April 28 <sup>th</sup>			
Second	April, May, June	Sample at least once during any month of the quarter	July 28th			
Third	July, August, September	Sample at least once during any month of the quarter	October 28th			
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th			

#### C. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached <u>Parts I, II, & III</u> standard conditions dated <u>October 1, 1980 and August 15, 1994</u>, and hereby incorporated as though fully set forth herein.

#### D. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.

#### 4. Water Quality Standards

- (a) To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;

#### D. SPECIAL CONDITIONS (continued)

- (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (5) There shall be no significant human health hazard from incidental contact with the water;
- (6) There shall be no acute toxicity to livestock or wildlife watering;
- (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
- 5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 μg/L);
  - (2) Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 6. Report as no-discharge when a discharge does not occur during the report period.
- 7. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 8. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.
- 9. The permittee shall develop and implement a program for maintenance and repair of the collection system. The permittee shall submit a report annually in January to the Northeast Regional Office with the Discharge and Monitoring reports which address measures taken to locate and eliminate sources of infiltration and inflow into the collection system serving the facility for the previous year.
- 10. Bypasses are not authorized at this facility and are subject to 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3)(i), and with Standard Condition Part I, Section B, subsection 2.b. Bypasses are to be reported to the Northeast Regional Office.
- 11. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 12. A least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain locked except when opened by the permittee to perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department.
- 13. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.

#### D. SPECIAL CONDITIONS (continued)

- 14. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.
- 15. An all-weather access road shall be provided to the treatment facility.
- 16. The discharge from the wastewater treatment facility shall be conveyed to the receiving stream via a closed pipe or a paved or riprapped open channel. Sheet or meandering drainage is not acceptable. The outfall sewer shall be protected against the effects of floodwater, ice or other hazards as to reasonably insure its structural stability and freedom from stoppage. The outfall shall be maintained so that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
- 17. A minimum of two (2) feet freeboard must be maintained in the lagoon cell.
- 18. The berms of the lagoon(s) shall be mowed and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.
- 19. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the lagoon and to divert stormwater runoff around the lagoon and protect embankments from erosion.
- 20. Whole Effluent Toxicity (WET) Test shall be conducted as follows:

SUMMARY OF ACUTE WET TESTING FOR THIS PERMIT							
OUTFALL	AEC	FREQUENCY	SAMPLE TYPE	MONTH			
001							

<sup>\*</sup> A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampler.

Dilution Series							
AEC%= 100%	100% effluent	50% effluent	25% effluent	12.5% effluent	6.25% effluent	(Control) 100% upstream, if available	(Control) 100% Lab Water, also called synthetic water

- (a) Test Schedule and Follow-Up Requirements
  - (1) Perform a MULTIPLE-dilution acute WET test in the months and at the frequency specified above. For tests which are successfully passed, submit test results using the Department's WET test report form #MO-780-1899 along with complete copies of the test reports as received from the laboratory, including copies of chain-of-custody forms within 30 calendar days of availability to the WATER PROTECTION PROGRAM, P.O. Box 176, Jefferson City, MO 65102. If the effluent passes the test, do not repeat the test until the next test period.
    - (a) Chemical and physical analysis of the upstream control and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping.
    - (b) Any and all chemical or physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% Effluent concentration in addition to analysis performed upon any other effluent concentration.
    - (c) All chemical analyses included in the Missouri Department of Natural Resources WET test report form #MO-780-1899 shall be performed and results shall be recorded in the appropriate field of the report form.
  - (2) The WET test will be considered a failure if mortality observed in effluent concentrations for either specie, equal to or less than the AEC, is significantly different (at the 95% confidence level; p = 0.05) than that observed in the upstream receiving-water control sample. Where upstream receiving water is not available, synthetic laboratory control water may be used.
  - (3) All failing test results along with complete copies of the test reports as received from the laboratory, INCLUDING THOSE TESTS CONDUCTED UNDER CONDITION (3) BELOW, shall be reported to the WATER PROTECTION PROGRAM, P.O. Box 176, Jefferson City, MO 65102 within 14 calendar days of the availability of the results.

#### D. SPECIAL CONDITIONS (continued)

- (4) If the effluent fails the test for BOTH test species, a multiple dilution test shall be performed for BOTH test species within 30 calendar days and biweekly thereafter (for storm water, tests shall be performed on the next and subsequent storm water discharges as they occur, but not less than 7 days apart) until one of the following conditions are met: Note: Written request regarding single species multiple dilution accelerated testing will be address by THE WATER PROTECTION PROGRAM on a case by case basis.
  - (i) THREE CONSECUTIVE MULTIPLE-DILUTION TESTS PASS. No further tests need to be performed until next regularly scheduled test period.
  - (ii) A TOTAL OF THREE MULTIPLE-DILUTION TESTS FAIL.
- (5) Follow-up tests do not negate an initial failed test.
- (6) The permittee shall submit a summary of all test results for the test series along with complete copies of the test reports as received from the laboratory to the WATER PROTECTION PROGRAM, P.O. Box 176, Jefferson City, MO 65102 within 14 calendar days of the third failed test.
- (7) Additionally, the following shall apply upon failure of the third follow up MULTIPLE DILUTION test The permittee should contact THE WATER PROTECTION PROGRAM within 14 calendar days from availability of the test results to ascertain as to whether a TIE or TRE is appropriate. If the permittee does not contact THE WATER PROTECTION PROGRAM upon the third follow up test failure, a toxicity identification evaluation (TIE) or toxicity reduction evaluation (TRE) is automatically triggered. The permittee shall submit a plan for conducting a TIE or TRE to the WATER PROTECTION PROGRAM within 60 calendar days of the date of the automatic trigger or DNR's direction to perform either a TIE or TRE. This plan must be approved by DNR before the TIE or TRE is begun. A schedule for completing the TIE or TRE shall be established in the plan approval.
- (8) Upon DNR's approval, the TIE/TRE schedule may be modified if toxicity is intermittent during the TIE/TRE investigations. A revised WET test schedule may be established by DNR for this period.
- (9) If a previously completed TIE has clearly identified the cause of toxicity, additional TIEs will not be required as long as effluent characteristics remain essentially unchanged and the permittee is proceeding according to a DNR approved schedule to complete a TRE and reduce toxicity. Regularly scheduled WET testing as required in the permit, without the follow-up requirements, will be required during this period.
- (10) When WET test sampling is required to run over one DMR period, each DMR report shall contain a copy of the Department's WET test report form that was generated during the reporting period.
- (11) Submit a concise summary in tabular format of all WET test results with the annual report.
- (b) Test Conditions
  - (1) Test Type: Acute Static non-renewal
  - (2) All tests, including repeat tests for previous failures, shall include both test species listed below unless approved by the department on a case by case basis.
  - (3) Test species: Ceriodaphnia dubia and Pimephales promelas (fathead minnow). Organisms used in WET testing shall come from cultures reared for the purpose of conducting toxicity tests and cultured in a manner consistent with the most current USEPA guidelines. All test animals shall be cultured as described in the most current edition of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms.
  - (4) Test period: 48 hours at the "Allowable Effluent Concentration" (AEC) specified above.
  - (5) Upstream receiving stream water shall be used as dilution water. If upstream water is unavailable or if mortality in the upstream water exceeds 10%, "reconstituted" water will be used as dilution water. Procedures for generating reconstituted water will be supplied by the MDNR upon request.
  - (6) Tests will be run with 100% receiving-stream water (if available), collected upstream of the outfall at a point beyond any influence of the effluent, and reconstituted water.
  - (7) If reconstituted-water control mortality for a test species exceeds 10%, the entire test will be rerun.
  - (8) If upstream control mortality exceeds 10%, the entire test will be rerun using reconstituted water as the dilutant.
  - (9) Whole-effluent-toxicity test shall be consistent with the most current edition of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms

#### E. SCHEDULE OF COMPLIANCE

The facility shall attain compliance with final effluent limitations for **Ammonia as N** as soon as reasonably achievable or no later than  $\bf 4$  years of the effective date of this permit.

- 1. Within six months of the effective date of this permit, the permittee shall report progress made in attaining compliance with the final effluent limits.
- 2. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from issuance date.
- 3. Within **4 years** of the effective date of this permit, the permittee shall attain compliance with the final effluent limits for **Ammonia as N**.

Please submit progress reports to the Missouri Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, Missouri, 63552.

# MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF MODIFICATION OF MO-0055981 BUNCETON WASTEWATER TREATMENT FACILITY

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for:

Minor Minor

#### Part I – Facility Information

Facility Type: POTW - SIC #4952

#### Facility Description:

Three-cell lagoon/ ultraviolet disinfection/ sludge being retained in the lagoon

<u>Have</u> any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

⊠ No

Application Date: 08/03/2011 Expiration Date: 11/16/2011

#### **OUTFALL(S) TABLE:**

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE
001	0.075	Equivalent Secondary	Domestic

#### Receiving Water Body's Water Quality & Facility Performance History:

The facility received a Notice of Violation (NOV) on 6/30/2011 for failing to meet effluent limits, and a letter of warning (LOW) on 10/18/2011 for delinquent permit fees. The facility returned to compliance. Not information is available for the streams water quality.

#### Comments:

The facility prompted this permit modification in response to the new effluent limits for Ammonia. The facility illustrated that they could not meet the Ammonia limits in place in the permit renewal, department staff agreed and a 4-year SOC is set in this modification to allow time to plan, secure funding and implement/construct new ammonia removal technology.

Because of Watershed Synchronization, this permit period is set for 2 years lieu of the standard 5 year period. This shortened permit period will force the SOC to be extended into the next permit at renewal; therefore only the interim Ammonia limits will be effect during in this and the final limits will become effective during the next permit cycle.

#### Part II - Operator Certification Requirements

Applicable; This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittee shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Check boxes below that are applicable to the facility;

•	Owned or operated by or for:
	Municipalities

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200) and/or fifty (50) or more service connections.

• Department required:

The Department requires this facility to retain the services of a certified operator due to status as a POTW.

This facility currently requires an operator with a <u>D</u> Certification Level. Please see **Appendix A - Classification Worksheet**. Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name: Russell W. Hein

Certification Number: 11944 Certification Level: D

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

#### **Part III- Operational Monitoring**

Applicable; As per [10 CSR 20-9.010(4))], the facility is required to conduct operational monitoring.

#### Part IV – Receiving Stream Information

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1<sup>st</sup> classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

#### **RECEIVING STREAM(S) TABLE:**

WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	DISTANCE TO CLASSIFIED SEGMENT (MI)
Tributary to Stephens Branch	U		Standard Criteria	10300102-	2.1
Stephens Branch	С	0787	LWW, AQL, WBC(B)	0402	2.1

<sup>\* -</sup> Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

<sup>\*\* -</sup> Ecological Drainage Unit

#### **RECEIVING STREAM(S) LOW-FLOW VALUES:**

RECEIVING STREAM (U, C, P)	Low-Flow Values (CFS)					
	1Q10	7Q10	30Q10			
Tributary to Stephens Branch (U)	0.0	0.0	0.0			

#### MIXING CONSIDERATIONS

Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].

Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

#### Part V - Rationale and Derivation of Effluent Limitations & Permit Conditions

#### **ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:**

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable; The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

#### **ANTI-BACKSLIDING:**

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

All limits in this operating permit are at least as protective as those previously established; therefore, backsliding does not apply.

#### ANTIDEGRADATION:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

#### AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per [10 CSR 20-6.010(3)(B)], ... An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

#### **BIOSOLIDS & SEWAGE SLUDGE:**

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: <a href="http://dnr.mo.gov/env/wpp/pub/index.html">http://dnr.mo.gov/env/wpp/pub/index.html</a>, items WQ422 through WQ449.

Permittee is not authorized to land apply biosolids. Sludge/biosolids are removed by contract hauler, incinerated, stored in the lagoon, etc.

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#### **COMPLIANCE AND ENFORCEMENT:**

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable; The permittee/facility is not currently under Water Protection Program enforcement action.

#### PRETREATMENT PROGRAM:

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Not Applicable; The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

#### **REASONABLE POTENTIAL ANALYSIS (RPA):**

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Applicable; A RPA was conducted on appropriate parameters. Please see APPENDIX B-RPA RESULTS.

#### **REMOVAL EFFICIENCY:**

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

Applicable; Equivalent to Secondary Treatment is 65% removal [40 CFR Part 133.105(a)(3) & (b)(3)].

#### SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):

Sanitary Sewer Overflows (SSOs) are defined as an untreated or partially treated sewage release are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSO's have a variety of causes including blockages, line breaks, and sewer defects that allow excess storm water and ground water to (1) enter and overload the collection system, and (2) overload the treatment facility. Additionally, SSO's can be also be caused by lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations.

Additionally, Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

Not applicable. This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

#### SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Applicable; The time given for effluent limitations of this permit listed under Interim Effluent Limitation and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(10)]. The facility has been given a schedule of compliance to meet final effluent limits for **Ammonia as N**. The four (4) year schedule of compliance allowed for this facility should provide adequate time to evaluate operations, obtain an engineering report and, if necessary raise funding, obtain a construction permit and implement upgrades required to meet effluent limits.

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#### STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities: (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

Not Applicable; At this time, the permittee is not required to develop and implement a SWPPP.

#### VARIANCE:

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable; This operating permit is not drafted under premises of a petition for variance.

#### WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Applicable; Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$Ce = \frac{(Qe + Qs)C - (Cs \times Qs)}{(Qe)}$$
 (EPA/505/2-90-001, Section 4.5.5)

Where C = downstream concentration

Cs = upstream concentration

Qs = upstream flow

Ce = effluent concentration

Qe = effluent flow

Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

#### Number of Samples "n":

Additionally, in accordance with the TSD for water quality-based permitting, effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying distribution or treatment performance, which should be, at a minimum, be targeted to comply with the values dictated by the WLA. Therefore, it is recommended that the actual planned frequency of monitoring normally be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4" at a minimum. For Total Ammonia as Nitrogen, "n = 30" is used.

#### WLA MODELING:

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable; A WLA study was either not submitted or determined not applicable by Department staff.

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#### WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

#### WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

#### Applicable;

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(3)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§§644.051.3 requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc...); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by facilities meeting the following criteria:

 $\bowtie$  Facility is a municipality or domestic discharger with a Design Flow  $\geq 22,500$  gpd.

#### 40 CFR 122.41(M) - BYPASSES:

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

Not Applicable; This facility does not anticipate bypassing.

#### 303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable; This facility does not discharge to a 303(d) listed stream.

#### Part VI - Effluent Limits Determination

#### APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

All Other Waters [10 CSR 20-7.015(8)]:

#### OUTFALL #001 - MAIN FACILITY OUTFALL

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

#### **EFFLUENT LIMITATIONS TABLE:**

PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthly Average	Modified	Previous Permit Limitations
Flow	MGD	1	*		*	No	*/*
$BOD_5$	mg/L	1, 4		65	45	No	65/45
TSS	mg/L	1, 4		110	70	No	110/70
pН	SU	1, 4		≥6.5		YES	≥ 6.0
Ammonia as N (April 1 – Sept 30) (Oct 1 – March 31)	mg/L	2, 3, 5	4.3 8.9		1.4 2.8	YES	*/* */*
Escherichia coli	***	1, 3		1030	206	Yes	Fecal 1000/400
Whole Effluent Toxicity (WET) Test	% Survival	11	Please see WET Test in the Derivation and Discussion Section below.				

<sup>\* -</sup> Monitoring requirement only.

#### **Basis for Limitations Codes:**

- 1. State or Federal Regulation/Law
- 2. Water Quality Standard (includes RPA)
- 3. Water Quality Based Effluent Limits
- 4. Lagoon Policy
- 5. Ammonia Policy
- 6. Antidegradation Review

- 7. Antidegradation Policy
- 8. Water Quality Model
- 9. Best Professional Judgment
- 10. TMDL or Permit in lieu of TMDL
- 11. WET Test Policy

#### OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- <u>Flow</u>. In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- <u>Biochemical Oxygen Demand (BOD<sub>5</sub>)</u>. 65 mg/L as a Weekly Average and 45 mg/L as a Monthly Average. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the <u>Receiving Stream Information</u>.
- <u>Total Suspended Solids (TSS)</u>. 110 mg/L as a Weekly Average and 70 mg/L as a Monthly Average. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the <u>Receiving Stream Information</u>.
- <u>pH</u>. Effluent limitation range is ≥ 6.5 Standard pH Units (SU), as per the applicable section of 10 CSR 20-7.015. pH is not to be averaged.

<sup>\*\* -</sup> For DO the Daily Maximum is a Daily Minimum and the Monthly Average is a Monthly Average Minimum.

<sup>\*\*\* - #</sup> of colonies/100mL; the Monthly Average for E. coli is a geometric mean.

<sup>\*\*\*\* -</sup> Parameter not previously established in previous state operating permit.

• <u>Total Ammonia Nitrogen</u>. Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(4)(B)7.C. & Table B3] default pH 7.8 SU Background total ammonia nitrogen = 0.01 mg/L (Default).

Season	Temp (°C)	pH (SU)	Total Ammonia Nitrogen CCC (mg/L)	Total Ammonia Nitrogen CMC (mg/L)
Summer	26	7.8	1.5	12.1
Winter	6	7.8	3.1	12.1

Summer: April 1 – September 30

Chronic WLA:  $C_e = ((0.074 + 0.0)1.5 - (0.0 * 0.01))/0.074$ 

 $C_e=1.5\ mg/L$ 

Acute WLA:  $C_e = ((0.074 + 0.0)12.1 - (0.0 * 0.01))/0.074$ 

 $C_e = 12.1 \text{ mg/L}$ 

 $LTA_c = 1.5 \text{ mg/L } (0.72) = 1.1 \text{ mg/L}$  [CV = 0.8, 99<sup>th</sup> Percentile, 30 day avg.]

 $LTA_a = 12.1 \text{ mg/L } (0.25) = 3.0 \text{ mg/L}$  [CV = 0.8, 99<sup>th</sup> Percentile]

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

MDL = 1.1 mg/L (3.99) = 4.3 mg/L [CV = 0.8, 99<sup>th</sup> Percentile]

AML = 1.1 mg/L (1.26) = **1.4 mg/L** [CV =  $0.8, 95^{th}$  Percentile, n = 30]

Winter: October 1 – March 31

Chronic WLA:  $C_e = ((0.074 + 0.0)3.1 - (0.0 * 0.01))/0.074$ 

 $C_e = 3.1 \text{ mg/L}$ 

Acute WLA:  $C_e = ((0.074 + 0.0)12.1 - (0.0*0.01))/0.074$ 

 $C_e = 12.1 \text{ mg/L}$ 

 $LTA_c = 3.1 \text{ mg/L } (0.73) = 2.26 \text{ mg/L}$  [CV = 0.8, 99<sup>th</sup> Percentile, 30 day avg.]

 $LTA_a = 12.1 \text{ mg/L } (0.25) = 3.03 \text{ mg/L}$  [CV = 0.8, 99<sup>th</sup> Percentile]

Use most protective number of LTA<sub>c</sub> or LTA<sub>a</sub>.

MDL = 2.23 mg/L (3.99) = 8.9 mg/L [CV = 0.8, 99<sup>th</sup> Percentile]

AML = 2.23 mg/L (1.26) = 2.8 mg/L [CV =  $0.8, 95^{\text{th}}$  Percentile, n = 30]

- Escherichia coli (E. coli). Monthly average of 206 per 100 ml as a 30-day geometric mean and Weekly Average of 1030 7-day geometric mean during the recreational season (April 1 October 31), to protect Whole Body Contact Recreation (B) designated use of the receiving stream, as per 10 CSR 20-7.031(4)(C). Weekly Average effluent variability will be evaluated in development of a future effluent limit. An effluent limit for both monthly average and weekly average is required by 40 CFR 122.45(d).
- <u>WET Test</u>. WET Testing schedules and intervals are established in accordance with the Department's Permit Manual; Section 5.2 *Effluent Limits / WET Testing for Compliance Bio-monitoring*. It is recommended that WET testing be conducted during the period of lowest stream flow.

Acute (default)

#### No less than **ONCE/PERMIT CYCLE**:

Municipality or domestic facility with a design flow  $\geq$  22,500 gpd, but less than 1.0 MGD.

#### Minimum Sampling and Reporting Frequency Requirements.

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
Flow	once/month	once/month
$BOD_5$	once/month	once/month
TSS	once/month	once/month
рН	once/month	once/month
Ammonia as N	once/month	once/month
E. coli	once/month	once/month

#### **Sampling Frequency Justification:**

The Clean Water Commission has directed the Department to proceed with amending 10 CSR 20-7.015 to reduce the sampling frequency required for E.coli to a lesser frequency, still protective of water quality standards, for smaller facilities, including those with discharges of 100,000 gallons per day or less.

#### **Sampling Type Justification**

As per 10 CSR 20-7.015, samples collected for lagoons shall be grab samples

#### Part VII - Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

Applicable; The Department is required to determine findings of affordability because the permit applies to a **combined or separate sanitary sewer system for a publically-owned treatment works.** See **Appendix C – Affordability Analysis** 

#### **Part VIII – Administrative Requirements**

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

#### **PUBLIC NOTICE:**

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

The Public Notice period for this operating permit modification was from June 7 to July 8, 2013. No comments were received.

**DATE OF FACT SHEET:** APRIL 2013

#### COMPLETED BY:

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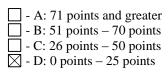
### **Appendices**

#### APPENDIX A - CLASSIFICATION WORKSHEET:

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
Maximum Population Equivalent (P.E.) served (Max 10 pts.)	1 pt./10,000 PE or major fraction thereof.	
Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)	1 pt. / MGD or major fraction thereof.	
EFFLUENT DISCHARGE RECEIVING	WATER SENSITIVITY:	
Missouri or Mississippi River	0	
All other stream discharges except to losing streams and stream reaches supporting whole body contact	1	1
Discharge to lake or reservoir outside of designated whole body contact recreational area	2	
Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation	3	
PRELIMINARY TREATMENT	Γ - Headworks	
Screening and/or comminution	3	
Grit removal	3	
Plant pumping of main flow (lift station at the headworks)	3	
PRIMARY TREATM	ENT	
Primary clarifiers	5	
Combined sedimentation/digestion	5	
Chemical addition (except chlorine, enzymes)	4	
REQUIRED LABORATORY CONTROL – performed	by plant personnel (highest level only)	
Push – button or visual methods for simple test such as pH, Settleable solids	3	3
Additional procedures such as DO, COD, BOD, titrations, solids, volatile content	5	5
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	7	
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph	10	
ALTERNATIVE FATE OF I	EFFLUENT	
Direct reuse or recycle of effluent	6	
Land Disposal – low rate	3	
High rate	5	
Overland flow	4	
Total from page ONE (1)		9

#### APPENDIX A - CLASSIFICATION WORKSHEET (CONTINUED):

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
VARIATION IN RAW WASTE (highest level only) (DMR e	exceedances and Design Flow excee	edances)
Variation do not exceed those normally or typically expected	0	
Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow	2	
Recurring deviations or excessive variations of more than 200 % in strength and/or flow	4	
Raw wastes subject to toxic waste discharge	6	
SECONDARY TREAT	MENT	
Trickling filter and other fixed film media with secondary clarifiers	10	
Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)	15	
Stabilization ponds without aeration	5	5
Aerated lagoon	8	
Advanced Waste Treatment Polishing Pond	2	
Chemical/physical – without secondary	15	
Chemical/physical – following secondary	10	
Biological or chemical/biological	12	
Carbon regeneration	4	
DISINFECTION		
Chlorination or comparable	5	
Dechlorination	2	
On-site generation of disinfectant (except UV light)	5	
UV light	4	4
SOLIDS HANDLING - S	LUDGE	
Solids Handling Thickening	5	
Anaerobic digestion	10	
Aerobic digestion	6	
Evaporative sludge drying	2	
Mechanical dewatering	8	
Solids reduction (incineration, wet oxidation)	12	
Land application	6	
Total from page TWO (2)		9
Total from page ONE (1)		9
Grand Total		18



#### APPENDIX B - RPA RESULTS:

Parameter	CMC*	RWC Acute*	CCC*	RWC Chronic*	n**	Range max/min	CV***	RP Yes/No
Total Ammonia as Nitrogen (Summer) mg/L	12.10	25.47	1.50	25.47	15	0.3/7.8	0.797	Yes
Total Ammonia as Nitrogen (Winter) mg/L	12.10	15.65	3.10	15.65	10	0.03/3.85	0.799	Yes

#### N/A - Not Applicable

- \* Units are (µg/L) unless otherwise noted.
- \*\* If the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent. If the number of samples is < 10, then the default CV value must be used in the WQBEL for the applicable constituent.
- \*\*\* Coefficient of Variation (CV) is calculated by dividing the Standard Deviation of the sample set by the Mean of the same sample set. RWC Receiving Water Concentration. It is the concentration of a toxicant or the parameter toxicity in the receiving water after mixing (if applicable).
- n Is the number of samples.
- MF Multiplying Factor. 99% Confidence Level and 99% Probability Basis.
- RP Reasonable Potential. It is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors including, as a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii).

Reasonable Potential Analysis is conducted as per (TSD, EPA/505/2-90-001, Section 3.3.2). A more detailed version including calculations of this RPA is available upon request.

# Missouri Department of Natural Resources Water Protection Program Affordability Determination and Finding (In accordance with RSMo 644.145)

# Operating Permit Renewal **Bunceton Wastewater Treatment Plant MO-0055981**

Section 644.145 RSMo requires DNR to make a "finding of affordability" when "issuing permits under" or "enforcing provisions of" state or federal clean water laws "pertaining to any portion of a combined or separate sanitary sewer system or publicly-owned treatment works."

#### **Description:**

Outfall #001 - POTW - SIC #4952
Three-cell lagoon / sludge is retained in lagoon
Design population equivalent is 500
Design flow is 48,500 gallons per day.
Actual flow is 24,640 gallons per day.
Design sludge production is 7.5 dry tons/year.

Receiving Stream: Tributary to Stephens Branch (U) First Classified Stream and ID: Stephens Branch (C) (0787)

Residential Connections: 167 Commercial Connections: 25 Total Connections: 192

#### New Permit Requirements or Requirements Now Being Enforced:

Permit No. #Error! Reference source not found.0055981 expired on November 16, 2011. The department received an application for renewal on August 3, 2011. The proposed new permit requirements may require the design, construction and operation of new technology.

#### Range of Anticipated Costs Associated with Complying with the New Requirements:

The department estimates the cost for adding Ammonia treatment is between \$525,150 and \$1,085,000 (CAPDETWORKS cost estimator was used). This cost, if financed through user fees, might cost each household between \$54 and \$86 per month.

#### (1) A community's financial capability and ability to raise or secure necessary funding;

Current User Rates:	\$35/5000gal
Rate Capacity or Pay as You Go Option:	N/A
Municipal Bond Rating (if applicable):	N/A
Bonding Capacity:	\$399,000 city
(General Obligation Bond capacity allowed by constitution: cities=up to 20% of taxable tangible property sewer districts=up to 5% of taxable tangible property)	\$99,751 sewer district
Current outstanding debt:	\$633,994
Other indicators:	·

If the community increases user rates to finance and operate an upgrade, the rates may need to be \$70.33 (as calculated by the city) per month, which may make each household rate as high as 2.3% of the community's median household income (MHI). Percentages above 2% could create a high burden for a community.

#### (2) Affordability of pollution control options for the individuals or households of the community;

Current annual operating costs (exclude depreciation):	\$35,226
Current user rate <sup>1</sup> :	\$35
Estimated capital cost of pollution control options:	\$1,500,00
Annual Cost of Additional (Operating Costs & Debt Service):	\$128,255
Estimated Resulting User Rate and/or Cost per Household:	N/A
Median Household Income	\$36,952
Rate and/or Cost per Household as a	
Percent of Median Household Income <sup>2</sup> :	1.19% - 2.3%

Check Appropriate Box	Financial Impact	Residential Indicator (Usage Rate as a percent of MHI = annual cost/MHI)
	Low	Less than 1% MHI
	Medium	Between 1% and 2% MHI
	High	Greater than 2% MHI

If an increase to user rates is required to finance the new permit requirements, the rates could be between 1.31% and 2.3% of the MHI, and result in a medium to high financial impact.

#### (3) An evaluation of the overall costs and environmental benefits of the control technologies;

The new permit limits on Ammonia are anticipated to cost between \$595,390 and \$1,188,627. The environmental benefit of increased ammonia removal is improving conditions for aquatic life in the receiving stream.

This permit renewal requires final effluent limitations for Ammonia as N based on Missouri Water Quality Standards (WQS) 10 CSR 20-7 and the Clean Water Act. Ammonia (NH<sub>3</sub>) is toxic to early stages of aquatic life. NH<sub>3</sub> removal prevents damage to aquatic life and enables the receiving stream to support a healthier and diverse aquatic life community.

The following calculations illustrate the difference in pounds per day (lbs/day) of NH<sub>3</sub> discharged currently to lbs/day required by effluent limits in this permit:

Pounds of Ammonia as N per day = (flow) x (ammonia mg/L) x (8.34)

Current Performance (2011-2012 DMR data)

Flow = 0.0485 MGD:

Summer Season:

Monthly Average =  $0.0485 \times 3.33 \times 8.34 = 1.35 \text{ lbs/day}$ 

Winter Season:

Monthly Average =  $0.0485 \times 2.13 \times 8.34 = 0.86 \text{ lbs/day}$ 

Necessary Performance

Design Flow = 0.0485 MGD:

Summer Season:

Monthly Average =  $0.0485 \times 1.4 \times 8.34 = 0.56 \text{ lbs/day}$ 

Winter Season:

Monthly Average =  $0.0485 \times 2.7 \times 8.34 = 1.1 \text{ lbs/day}$ 

Environmental Benefit to Ammonia Removal

Flow = 0.0485 MGD		<u>Summer</u>	Winter
Current average performance (lbs/day)	=	1.35	0.86
-Necessary average performance limitations (lbs/day)	=	<u>-0.56</u>	<u>-1.10</u> 1.1
Environmental Benefit (lbs/day)	=	0.74	-0.24

Improving  $NH_3$  removal to meet final effluent limits at this facility will prevent the release of up to 0.74 pounds of  $NH_3$  per day to the receiving stream.

- (4) An inclusion of ways to reduce economic impacts on distressed populations in the community, including but not limited to low and fixed income populations. This requirement includes but is not limited to:
  - (a) Allowing adequate time in implementation schedules to mitigate potential adverse impacts on distressed populations resulting from the costs of the improvements and taking into consideration local community economic considerations; and
  - (b) Allowing for reasonable accommodations for regulated entities when inflexible standards and fines would impose a disproportionate financial hardship in light of the environmental benefits to be gained;

Potentially Distressed Populations – Bunceton WWTF			
Unemployment <sup>3</sup>	7.4%		
Median Household Income (MHI) <sup>4</sup>	\$36,952		
Percent Change in MHI (1990-2011)	+106.9%		
Percent Population Growth/Decline (1990-2011) <sup>5</sup>	+38.1%		
Change in Median Age in Years (1990-2011)	-13.2%		
Percent of Households in Poverty <sup>6</sup>	23.6%		
Percent of Households Relying on Food Stamps	30.3%		

Opportunity for cost savings or cost avoidance:

The permittee may apply for State Revolving Fund (SRF) financial support in order to help fund a Capital Improvements Plan. Other loans and grants also exist for which the facility may be eligible. Contact information for the department's Financial Assistance Center (FAC) and more information can be found on the department's website at <a href="http://dnr.mo.gov/env/wpp/srf/wastewater-assistance.htm">http://dnr.mo.gov/env/wpp/srf/wastewater-assistance.htm</a>.

Opportunity for changes to implementation/compliance schedule, new technology, site specific criteria, use attainability analysis:

The facility may propose changes to the schedule of compliance based on their own cost estimate or financial information.

(5) An assessment of other community investments relating to environmental improvements;

UV Treatment summer 2013 Approved

(6) An assessment of factors set forth in the United States Environmental Protection Agency's guidance, including but not limited to the "Combined Sewer Overflow Guidance for Financial Capability Assessment and Schedule Development" that may ease the cost burdens of implementing wet weather control plans, including but not limited to small system considerations, the attainability of water quality standards, and the development of wet weather standards;

**Secondary indicators for consideration:** 

Indicators	Strong	Mid-Range	Weak	Score
	(3 points)	(2 points)	(1 point)	
Bond Rating Indicator	Above BBB or Baa	BBB or Baa	Below BBB or Baa	n/a
Overall Net Debt as a % of Full Market Property Value	Below 2%	2% - 5%	Above 5%	1
Unemployment Rate	>1% below Missouri average	± 1% of Missouri average	>1% above Missouri average	1
Median Household Income	More than 25% above Missouri MHI	± 25% of Missouri MHI	More than 25% below Missouri average	2
Property Tax Revenues as a % of Full Market Property Value	Below 2%	2% - 4%	Above 4%	3
Property Tax Collection Rate	Above 98%	94% - 98%	Below 94%	n/a

Secondary Indicators Average Score:	7
Residential Indicator (from Criteria #2 above):	1.19% - 2.3%

**Financial Capability Matrix:** 

Financial Capability	Residential Indicator (User rate as a % of MHI)			
Indicators Score from above \	Low	Mid-Range	High	
indicators score from above \$	(Below 1%)	(Between 1.0% and 2.0%	(Above 2.0%)	
Weak (below 1.5)	Medium Burden	High Burden	High Burden	
Mid-Range (1.5 – 2.5)	Low Burden	Medium Burden	High Burden	
Strong (above 2.5)	Low Burden	Low Burden	Medium Burden	

Estimated Financial Burden: <u>Medium Burden</u>

(7) An assessment of any other relevant local community economic condition.

#### **Conclusion and Finding**

As a result of new regulations, the department is proposing modifications to the current operating permit that may require the WWTF to add Ammonia treatment. The department identified the actions for which an affordability analysis is required under Section 644.145 RSMo.

The department estimates that adding Ammonia treatment will cost the City of Bunceton an estimated \$\$595,390 and \$1,188,627. Should these cost(s) be financed through user fees, it may require user fees between 1.19% and 2.3% of the community's MHI. Considering that several of the economic factors show a weak financial capability in this community, this analysis concludes that the evaluated permit action will result in user fees above 2% of the community's median household income.

The department considered all seven (7) of the criteria presented in subsection 644.145.3 when evaluating the affordability of the relevant actions. Taking into consideration these criteria, this analysis examined whether the above referenced permit modifications affects the ability of an individual customer or household to pay a utility bill without undue hardship or unreasonable sacrifice in the essential lifestyle or spending patterns of the individual or household. As a result of reviewing the above criteria, the Department hereby finds that the action described above will likely result in a **Medium** burden with regard to the community's overall financial capability and a Error! Reference source not found. financial impact for most individual customers/households. However, this determination is based on readily available data, and may over-estimate the financial impact on the community.

Bunceton WWTF Affordability Analysis, Page #4

#### **Reference Page**

Population trend data was obtained from online at:

2011 Census Bureau Population Data - <a href="http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table">http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table</a>
2000 Census Bureau Population Data - <a href="http://www.census.gov/popest/data/cities/totals/2009/tables/SUB-EST2009-04-29.xls">http://www.census.gov/popest/data/cities/totals/2009/tables/SUB-EST2009-04-29.xls</a>
1990 Census Bureau Population Data - <a href="http://www.census.gov/prod/cen1990/cp1/cp-1-27.pdf">http://www.census.gov/prod/cen1990/cp1/cp-1-27.pdf</a>

Poverty data is provided by the American Fact Finder – POVERTY STATUS IN THE PAST 12 MONTHS – 2007-2011 American Community Survey 5-Year Estimates, which can be found online at <a href="http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table">http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table</a>

<sup>&</sup>lt;sup>1</sup> This figure was obtained from a spreadsheet compiled by the Missouri Public Utility Alliance regarding water and wastewater rates, updated March 16, 2012

 $<sup>^{2}</sup>$  36.5/(36,952/12) = 1.1 and 70.8/(36952/12) = 2.3

Unemployment data was obtained from Missouri Department of Economic Development (February 2013) – http://www.missourieconomy.org/pdfs/urel1302.pdf

Median Household Income is provided by the American Fact Finder – INCOME IN THE PAST 12 MONTHS (IN 2011 INFLATION ADJUSTED DOLLARS) – 2007 – 2011 American Community Survey 5-Year Estimates, which can be found online at: http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table

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4	<b>(4)</b>

MISSOURI DEPARTMENT OF NATURAL RESOURCES

CHECK NUMBER

WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH FORM B - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT FOR

<b>E</b>	day) UNDER MISSOURI CLEAN	RIMARILY DOMESTIC WASTE (≤100,000 gall WATER I AW	lons per	DATE RECEI	VED FEE SUBMITTED	
NOTE		ANYING INSTRUCTIONS BEFORE COMPLET	TING THIS F	ORM		
1. C	This application is for:  An operating permit and antidegrad A construction permit following an a A construction permit and a concur A construction permit (submitted be An operating permit for a new or un	lation review public notice. appropriate operating permit and antidegradation review for a Aug. 30, 2008 or antidegradation review is a permitted facility.  it #MO- 0055981 Expiration ermit #MO- Reason:	on review put	olic notice ce. d). 2011		
1.2		he application (See instructions for appropriate	fee)? Y	ES	NO N/A	
2.	FACILITY (Outfall 1 of 1 )					
NAME Buncet	on Wastewater Treatment Facility			EPHONE WI 0) 427-55	TH AREA CODE 515	
	S (PHYSICAL)	CITY	STA	STATE ZIP CODE		1
	ollege Street	Bunceton	MC		5237	4
2.1	LEGAL DESCRIPTION:	14, SE 14, SE 14, Sec. 32 , T 47n , R	17 <sub>W</sub>	County	Cooper	
2.2 UTM Coordinates Easting (X): Northing (Y): For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)  2.3 Name of receiving stream: unnamed tributary to Staphens Branch (u)  3. OWNER						
NAME City of	Runostan	E-MAIL ADDRESS	1		TH AREA CODE	1
ADDRES	Bunceton s	CITY		0) 427-55	515 PCODE	-
103 Ma	in St P O Box 46	Bunceton	MC		5237	
3.1	Request review of draft permit prior t		NO			1
4.	CONTINUING AUTHORITY: Perma maintenance and modernization o	nent organization which will serve as the co f the facility.				
	Bunceton owner			EPHONE WI 0) 427-55	TH AREA CODE 515	1
ADDRESS 103 Ma	in St., P O Box 46	CITY Bunceton	STA	TE Z	P CODE	1
5.	OPERATOR	Builceion	MO	00	5237	<u> </u>
NAME	W Hein	CERTIFICATE NUMBER			TH AREA CODE	1
6.	FACILITY CONTACT	11944	(66	0) 427-50	007	4
NAME		TITLE	TEL	EPHONE WIT	TH AREA CODE	1
	W Hein	Chief Operator/ Alderman		0) 427-50		
7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 7.10 7.11 7.12 7.13 7.14	Facility SIC code:	sheet if required). Attach a 1" = 2,000' scale U.S. Gendowners. (See Item 9.)  and the special	NAICS code: 00 partments 7 for this outfall: y number of cuppropriate.) lo (If yes, attaination and prinstructions.)	24,640 stomers/gch explana	Other 24_ uests n/a ation.) pair.) ment of Natural Northeast Regional C RECEIVED	
MO 780-1	512 (09-08)			Email Ha	1 25	L =ed Ex

8.	SLUDGE HANDLING, US			destine selenter			
8.1	Is the sludge a hazardous	waste as defined by 10	CSR 25? Yes V No	•			
8.2	Sludge Production, includ	ing sludge received from	m others: 7.5 Design Dry Tons/	Year	Actual Dry Tons/Year		
8.3	Capacity of sludge holding	a structures: Stope	tio lacon				
	Sludge storage pro	vided cubic feet	t; days of storage; av	erane nercent s	olide of eludae		
	☐ No sludge stora	nge is provided	adjo of otorago, are	crage percent s	olida oli aldage,		
8.4	Type of Storage:	☐ Holding tank	☐ Building				
0.4	Type of Otorage.	☐ Basin		aa\ Lassan			
		☐ Concrete Pad	✓ Other (Please descril	De) Lagoon			
0.5	Objective Towards	Concrete Pau					
8.5	Sludge Treatment:						
	Anaerobic Digester	✓ Lagoon	☐ Composting				
	☐ Storage Tank	Aerobic Diges		cription)			
	☐ Lime Stabilization	Air or Heat Dr	rying				
8.6	Sludge Use or Disposal:						
	Land Application	Surface Dispo	osal (Sludge Disposal Lagoon, Sludç	ge held for more	e than two years)		
	Contract Hauler	Incineration					
	Hauled to Another	Sludge Retair	ned in Wastewater treatment lagoon				
-	Treatment Facility	Other	Attach explanation sheet.				
	Solid Waste Landfill				•		
8.7	PERSON RESPONSIBLE	FOR HAULING SLUE	GE TO DISPOSAL FACILITY				
	☐ By Applicant	☑ By Others (co)					
NAME		<u> </u>					
Will Co	ntract as needed						
ADDRESS			СПУ	STATE	ZIP CODE		
CONTACT	PERSON		TELEPHONE WITH AREA CODE	PERMIT N	О.		
0.0	OLUBOR HOR OR BIOSC			MO-			
8.8	SLUDGE USE OR DISPO						
NAME	☐ By Applicant	☑ By Others (Please	complete below.)				
1 .	termine as needed						
ADDRESS			CITY	LOTATE	T == 000=		
			Giri	STATE	ZIP CODE		
CONTACT	PERSON		TELEPHONE WITH AREA CODE	PERMIT N	0.		
				MO-			
8.9	Does the sludge or biosoli	ids disposal comply with	n federal sludge regulations under 40	CFR 503?			
	✓Yes	· ·					
9.	DOWNSTREAM LANDO	WNER (S). ATTACH AI	DDITIONAL SHEETS AS NECESSA	RY. SEE INS	TRUCTIONS.		
NAME							
Mark No					,		
ADDRESS 318 We	st Main Street		CITY	STATE	ZIP CODE		
10.	DRINKING WATER SUPI	N V INCODITATION	Bunceton	MO	65237		
10.1	WHAT IS THE SOURCE	OF YOUR DRINKING V	VATER SUPPLY:				
	A. Public supply (munici	pal or water district water	er) <u>Munic</u> ipal				
	If public, please give name of the public supply Bunceton						
	B. Private well						
	C. Surface water (lake, pond or stream)						
10.2	Does your drinking water source serve at least 25 people at least 60 days per year (not necessarily consecutive days)?						
ł	☑Yes ☐ No		(i.	or noocooding o	onocodive days):		
40.3	100						
10.3	10.3 Does your supply serve housing which is occupied year round by the same people? This does not include housing which is						
	occupied seasonally? ⊌/Yes □ No						
11. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such							
INTOFMATION IS True, complete and accurate, and it granted this nermit. I suree to shide by the Missouri Clean Water Law and							
	all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean						
	vvater Law.						
	OFFICIAL TITLE (TYPE OR PRINT)		:	TELEPHONE WITH	AREA CODE		
	W Hein, Chief Operator/Ald	erman		(660) 427-500	7		
SIGNATUR				DATE SIGNED			
Tu	issell W. YI			OIAL	16 2011		
MO 780-151	2 (09-08)			<u> </u>			

